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VC-PTZ30 (DANTE)

4K Ultra HD Video Conference Camera AI tracking

PRODUCT OVERVIEW

The **VC-PTZ30 (DANTE)** is a high-performance 4K Ultra HD video conferencing camera designed for professional-grade AV environments. Equipped with a 30× optical zoom lens, AI-powered auto-tracking, and Dante AV-H support, this camera delivers exceptional clarity, flexibility, and IP-based integration for modern meeting rooms, auditoriums, and broadcast spaces. With support for multiple video output interfaces including HDMI, USB 3.0, IP Streaming, and Dante AV, the VC-PTZ30 offers seamless compatibility with conferencing platforms, control systems, and AV-over-IP infrastructure.

KEY FEATURES

- **4K60FPS:** Use a high-quality 1/1.8 inches UHD CMOS sensor with 8.42 million pixels. Support max 4K60fps image output and multiple lower resolutions like 1080p/720p.
- **30× Optical Zoom + 59° Wide-angle Lens:** 4K optical lens, support max 30× optical zoom (50× lossless in 1080P) and 59° horizontal field of view, can cover the demand of Extra-large conferencing room and other scenarios need larger optical zoom.
- **AI Smart Tracking:** With the built-in AI capability and algorithms, camera can support multiple tracking modes, including body tracking, hybrid tracking and etc.
- **Remote Control:** Support multiple ways of control, like RS232, RS485, Network and USB.
- **Non-compressed video stream:** HDMI2.0 and 3G-SDI I/O, can output non-compressed video stream.
- **Low Illumination:** The new generation high performance CMOS image sensor can significantly reduce the image noise in low illumination. With the 3D noise reduction algorithms, even in an ultra-low illumination environment, camera can still deliver a sharp and clean image with more than 55dB S/N ratio.
- **Gravity Sensor:** Support image flipping, apply to head-up/head-down installation.
- **NDI®|HX2:** Support low-latency NDI®|HX2 protocol, plug to play, minimal configuration and easy for deployment.
- **Multiple Interfaces:** HDMI2.0, USB2.0/3.0, 3G-SDI (Up to 150 meters transmission with 1080P30), LAN. Support HDMI/3G-SDI, USB, LAN streaming simultaneously.

APPLICATIONS

- Boardrooms
- Classrooms
- Auditorium

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TECHNICAL SPECIFICATIONS

Camera Specifications

Signal System	**HDMI:** 4KP60, 4KP59.94, 4KP50, 4KP30, 4KP25, 4KP29.97, 1080P60, 1080P50, 1080I60, 1080I50, 1080P30, 1080P59.94, 1080I59.94, 1080P29.97, 720P60, 720P59.94 **3G-SDI:** 1080P60, 1080P50, 1080P/30, 1080P/29.97, 1080P/59.94; 1080I/60; 1080I/59.94; 1080I/50; 1080P/25; 1080P/24; 1080P/23.98; 720P/60; 720P/59.94
Sensor	1/1.8 inches, CMOS, Effective Pixels: 8.42 Megapixels
Scanning Mode	Progressive
Lens	30x, f=7.1mm – 210mm, F1.61 – F5.19
Shutter	1/30s – 1/10000s
White Balance	Auto, Indoor, Outdoor, One Push, Manual, VAR
Backlight Compensation	Support
Digital Noise Reduction	3D Digital Noise Reduction
SNR	≥ 55dB
Horizontal FOV	59.2° – 2.5°
Vertical FOV	34.6° – 1.4°
Pan Angle	±170°
Tilt Angle	-30° ~ +90°
Pan Speed	1.7° ~ 100°/s
Tilt Speed	1.7° ~ 69.9°/s
Image Flip	Support
Image Freeze	Support
PoE+	Support
Preset Position	255
Preset Accuracy	0.1°

Interfaces Specifications

HD Output	1 × HDMI: Version 2.0 1 × 3G-SDI: BNC, 800mVp-p, 75Ω, as per SMPTE 424M standard
Network Interface	1 × RJ45: 10M/100M/1000M adaptive Ethernet
Audio Interface	1 × LINE IN: 3.5mm Jack 1 × LINE OUT: 3.5mm Jack
USB Interface	1 × USB2.0, Type-A 1 × USB3.0, Type-B
Control Interface	1 × RS485: 2pin phoenix port, Max Distance: 1200m, Protocol: VISCA / Pelco-D / Pelco-P 1 × RS232 IN: 8pin Mini DIN, Max Distance: 30m, Protocol: VISCA / Pelco-D / Pelco-P 1 × RS232 OUT: 8pin Mini DIN, Max Distance: 30m, Protocol: VISCA only
Power Interface	JEITA type (DC IN 12V)

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TECHNICAL SPECIFICATIONS

Network Specifications

Video Compression	H.265 / H.264 / MJPEG
Video Stream	First Stream, Second Stream
First Stream Resolution	3840×2160, 1920×1080, 1280×720, 1024×576 etc
Second Stream Resolution	720×480, 320×240 etc
Video Bit Rate	First Stream: 32kbps–51200kbps Second Stream: 32kbps–20480kbps
Bit Rate Control	VBR, CBR
Frame Rate	50Hz: 1fps–50fps, 60Hz: 1fps–60fps
Audio Compression	AAC, G.711A
Audio Bit Rate	96kbps, 128kbps
Protocols	NDI|HX2, SRT, TCP/IP, HTTP, RTSP, RTMP(s), Onvif, DHCP, GB/T 28181, Multicast, etc

USB Specifications

Operating System Supported	Windows 7 (only supports UVC1.1 features), Windows 8 and above version, Mac OS X, Linux 2.6.6 and above version, Android needs to include the version of UVC-related drivers
Color System / Compression	YUY2 / H.264 / MJPEG / H.265
Video Format	YUY2: Max.1080P15 (USB2.0) YUY2: Max.1080P50 (USB3.0) H.264 AVC: Max.2160P30 H.265 HEVC: Max.2160P30 MJPEG: Max.2160P30
USB Audio	Support
USB Video Communication Protocol	UVC 1.1~1.5
UVC PTZ Control	Support

General Specifications

Input Voltage	DC 12V / PoE+ (802.3at)
Input Current	2A (Max.)
Operating Temperature	0°C – 40°C
Storage Temperature	-40°C – 60°C
Power Consumption	18W (Max.)
Dimension	170mm × 228mm × 181mm
Net Weight	2.0kg

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